

ABSTRACT

Four knurls are formed by a molding apparatus (31) to be evenly spaced circumferentially on and protrude from an outer circumferential surface of an armature shaft (14). The molding apparatus (31) has a first mold (32) and a second mold (33), which are movable in directions of being close to and separating from each other, wherein the first mold (32) is provided with a pair of first molding edges (43) and the second mold (33) is provided with a pair of second molding edges (45). The respective molding edges (43) and (45) are formed into parallelogram sections, which have cutting faces (51) and (61) parallel to a moving direction of the second mold (33), extrusion faces (52) and (62) formed at acute angles with respect to the cutting faces (51) and (61), and load supporting faces (53) and (63) parallel to the extrusion faces (52) and (62). By pressing those molding edges (43) and (45) against the outer circumferential surface of the armature shaft (14), the knurls is formed.